

Preparation of low-odor flexible polyurethane foams

Abstract

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Low-odor flexible polyurethane foams are prepared by reacting organic and/or modified organic polyisocyanate (a) with a polyetherol mixture (b) and, if required, further compounds (c) having hydrogen atoms reactive toward isocyanates, in the presence of water and/or other blowing agents (d), catalysts (e), flameproofing agents (f) and, if required, further assistants and additives (g), by a process in which the polyetherol mixture (e) consists of

15 b1) at least one difunctional to octafunctional polyetherol based on ethylene oxide and, if required, propylene oxide and/or butylene oxide, having an ethylene oxide content of at least 30% by weight, based on the total amount of alkylene oxide used, and an OH number of from 20 to 200 mg KOH/g, and

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b2) at least one polyetherol based on propylene oxide and/or butylene oxide and, if required, ethylene oxide, having an OH number greater than 20 mg KOH/g, the ethylene oxide content being less than 30% by weight, based on the total amount of alkylene oxide used,

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and the foaming is effected in an index range of less than 150, the catalyst used comprising at least one catalyst supporting the polyisocyanurate reaction.

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The flexible polyurethane foams thus prepared are used as carpet, upholstery, seat and packaging material and in the hygiene sector.

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